

# **CROSSWALK BETWEEN THE CSREES STRATEGIC PLAN FOR 2007-2012 AND PORTFOLIOS OF PROGRAMS**

## **2008 REVIEW CYCLE**

### **MARKETS, TRADE, POLICY, AND INTERNATIONAL DEVELOPMENT**

*Relevant Objective - 1.2: Support international economic development and trade capacity building*

*Relevant Objective 2.1: Provide research, education, and extension to expand domestic market opportunities*

#### Knowledge Areas

- 603 Market Economics
- 604 Marketing and Distribution Practices
- 606 International Trade and Development Economics
- 610 Domestic Policy Analysis
- 611 Foreign Policy and Programs

### **AGRICULTURAL STRUCTURES AND FARM MANAGEMENT**

*Relevant Objective - 2.3: Provide risk management and financial tools farmers and ranchers*

#### Knowledge Areas

- 601 Economics of Agricultural Production and Farm Management
- 723 Hazards to Human Health and Safety

### **ANIMAL SYSTEMS**

*Relevant Objective - 2.2: Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems*

*Relevant Objective - 4.2: Develop and deliver research, education, and extension to reduce the number and severity of agricultural pest and disease outbreaks*

#### Knowledge Areas

- 301 Reproductive Performance of Animals
- 302 Nutrient Utilization in Animals
- 303 Genetic Improvement of Animals
- 304 Animal Genome
- 305 Animal Physiological Processes
- 306 Environmental Stress in Animals
- 307 Animal Production Management Systems
- 308 Improved Animal Products (Before Harvest)
- 311 Animal Diseases

- 312 External Parasites and Pests of Animals
- 313 Internal Parasites in Animals
- 314 Toxic Chemicals, Poisonous Plants and Naturally Occurring Toxins and Other Hazards Affecting Animals
- 315 Animal Welfare, Well Being, and Protection
- 721 Insects and other Pests Affecting Humans
- 722 Zoonotic Diseases and Parasites Affecting Humans

## **ECONOMIC AND BUSINESS DECISION-MAKING**

***Relevant Objective - 3.1: Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth***

### **Knowledge Areas**

- 134 Outdoor Recreation
- 602 Business Management, Finance, Taxation, and Estate Planning
- 608 Community Resource Planning and Development
- 609 Economic Theory and Methods
- 803 Sociological and Technological Change Affecting Individuals, Families, and Communities
- 901 Program and Project Design, and Statistics
- 902 Administration of Projects and Programs

### **Secondary Knowledge Areas**

- 601 Economics of Agricultural Production and Farm Management
- 610 Domestic Policy Analysis
- 803 Sociological and Technological Change Affecting Individuals, Families, and Communities

## **EDUCATION**

***CSREES education programs build the human resource capacity needed to support all the strategic objectives.***

### **Knowledge Areas**

- 903 Communication, Education, and Information Delivery

## **ENVIRONMENT AND NATURAL RESOURCES**

***Relevant Objective - 6.1: Ensure clean, abundant water and clean, healthy air***

***Relevant Objective - 6.2: Enhance soil quality to maintain productive working lands***

***Relevant Objective - 6.3: Protect, enhance, and manage forests and rangelands***

***Relevant Objective - 6.4: Protect and enhance wildlife habitat to benefit desired, at-risk, and declining species***

#### Knowledge Areas

- 101 Appraisal of Soil Resources
- 102 Soil, Plant, Water, Nutrient Relationships
- 103 Management of Saline and Sodic Soils and Salinity
- 104 Protect Soil from Harmful Effects of Natural Elements
- 111 Conservation and Efficient Use of Water
- 112 Watershed Protection and Management
- 121 Management of Range Resources
- 122 Management and Control of Forest and Range Fires
- 123 Management and Sustainability of Forest Resources
- 124 Urban Forestry
- 125 Agroforestry
- 131 Alternative Uses of Land
- 132 Weather and Climate
- 133 Pollution Prevention and Mitigation
- 135 Aquatic and Terrestrial Wildlife
- 136 Conservation of Biological Diversity
- 141 Air Resource Conservation and Management
- 403 Waste Disposal, Recycling and Reuse
- 405 Drainage and Irrigation Systems and Facilities
- 605 Natural Resource and Environmental Economics

### **FOOD PROCESSING AND BIO-BASED PRODUCTS**

***Relevant Objective - 2.1: Provide research, education, and extension to expand domestic market opportunities***

#### Knowledge Areas

- 401 Structures, Facilities, and General Purpose Farm Supplies
- 402 Engineering Systems and Equipment
- 404 Instrumentation and Control Systems
- 501 New and Improved Food Processing Technologies
- 502 New and Improved Food Products
- 503 Quality Maintenance in Storing and Marketing Food Products
- 504 Home and Commercial Food Service
- 511 New and Improved Non-Food Products and Processes
- 512 Quality Maintenance in Storing and Marketing Non-Food Products

### **FOOD SAFETY**

***Relevant Objective - 4.1: Reduce the incidence of food-borne illnesses and contaminants through research, education, and extension***

#### Knowledge Areas

- 711 Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712 Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

## **NUTRITION AND HEALTHIER FOOD CHOICES**

***Relevant Objective - 5.1: Ensure access to nutritious food***

***Relevant Objective - 5.2: Promote healthier eating habits and lifestyles***

### **Knowledge Areas**

- 701 Nutrient Composition of Food
- 702 Requirements and Function of Nutrients and Other Food Components
- 703 Nutrition Education and Behavior
- 704 Nutrition and Hunger in the Population

## **PLANT SYSTEMS**

***Relevant Objective - 2.2: Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems***

***Relevant Objective - 4.2: Develop and deliver research, education, and extension to reduce the number and severity of agricultural pest and disease outbreaks***

### **Knowledge Areas**

- 201 Plant Breeding, Genome, Genetics, and Genetic Mechanisms
- 202 Plant Genetic Resources and Biodiversity
- 203 Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 204 Plant Product Quality and Utility (Preharvest)
- 205 Plant Management Systems
- 206 Basic Plant Biology
- 211 Insects, Mites, and Other Arthropods Affecting Plants
- 212 Pathogens and Nematodes Affecting Plants
- 213 Weeds Affecting Plants
- 214 Vertebrates, Mollusks, and Other Pests Affecting Plants
- 215 Biological Control of Pests Affecting Plants
- 216 Integrated Pest Management Systems

## **QUALITY OF LIFE IN RURAL AREAS**

***Relevant Objective - 3.2: Provide research, education, and extension to improve the quality of life in rural areas***

### Knowledge Areas

- 607 Consumer Economics
- 724 Healthy Lifestyle
- 801 Individual and Family Resource Management
- 802 Human Development and Well-Being
- 804 Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures
- 805 Community Institutions, Health, and Social Services
- 806 Youth Development